## Xiangyu Jin

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Unive	ersity of Southern California	
Maste	r of Computer Science	Aug 2024 – 2026(expected)
Natio	nal University of Singapore	
Maste	r of Science in Data Science and Machine Learning (GPA:3.78)	Aug 2023 – July 2024
Unive	ersity of Illinois at Urbana Champaign	
Bache	elor of Science in Statistics (GPA:3.76)	Aug 2019 – May 2023
PERS	SONAL EXPERIENCE	
Scene	s Image Classification	Mar 2024 – May 2024
Group	Leader	
	Applied pre-processing techniques on image data; designed CNN architecture	cture to train the model to
	classify images from 15 different categories; achieved 72.44% accuracy of	on test dataset.
	Utilized pretrained weights Resnet50 to fit the model and resulted in 98.6	4% accuracy.
House	e Price Prediction Competition (Kaggle)	Jan 2024 – May 2024
Indivia	lual	
	Performed data cleaning, preprocessing, and feature engineering using py	rthon.
	Trained Lasso, Ridge, Random Forest, XG Boost, and Neural Networks to compare performance. Used	
	model ensembling to achieve the highest accuracy. Achieved RMSE 0.12	438 and ranked top 10% in the
	leaderboard.	
Image	e Compression with Mixed Transformer-CNN	Feb 2024 – May 2024
Group	Member	
	Realized the method described in paper, Learned Image Compression wit	th Mixed Transformer-CNN
	Architectures(arXiv:2303.14978v1).	
	Built CNN-Autoencoder model and GANs model in Python to compare compression efficiency;	
	replaced dataset to test generalization of the models.	
	Operated Transformer-based models and mixed CNN-based layers in the	architecture.
Movi	e Database Project	Oct 2023 – Nov 2023
Group	Leader	
	Combined data from IMDb and TMDB to build a relational database using MySQL and a document	
	database using MongoDB, cooperating with TMDB API. Compared complexity of building relational	
	database and document database and efficiency of querying in different databases.	
	Proficient in building databases and querying data using MySQL and Mo	ngoDB.
Shiny	Dashboard Project for Music Analytics	Mar 2023 – May 2023
Group	Leader	
	Developed an interactive Shiny Dashboard that allows users to explore ar	tist information, access an
	artist's top 10 songs, and visualize how an artist's popularity has evolved over the past decade.	
	Proficient in utilizing the Spotify API in R programing language for music	c data retrieval, including artist
	information and album details.	
	Implemented machine learning models, including multinomial logistic re-	gression, support vector
	machine, and XGBoost to predict singer hotness trend.	
INTE	REST AND DISTINCTION	
	Computer: Python, R, MySQL, Java, C++, Excel, PowerPoints	
	Language: Mandarin (Native), English (Fluent)	
	Interests: Badmintons, Movies, Cooking, Dog Training	